



Project Overview Agenda

Project Status Overview
 Jean Grady

• Reference Mission Architecture Govind Gadwal

• Observing Plans Kim Weaver

May 1, 2002 C-X – Tech Mtg–2



Mission Definition Activities and Plans

- Preparing for Phase A to start in FY03
- Development of mission documents on-going
 - Draft Top Level Requirements
 - Reference Mission Architecture and Design Document
 - Science Design Reference Mission Document
 - Operations Concept Document
- Mission documents are available on Constellation-X library web site: http://conxproject.gsfc.nasa.gov/engn.htm
- Industry mission studies to start in FY03 and FY04



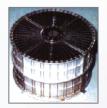
Technology Development Activities

- Revised Technology Roadmap plans in summer and fall 2001
- Ongoing Technology Development ramped up in FY02
 - Spectroscopy X-ray Telescope Optics is main focus of technology development
 - Reflector development
 - Pathfinder assembly
 - X-ray Calorimeter development includes TES and NTD/Ge
 - Single pixel optimization and small arrays
 - Considering technology options for the CCD/grating
 - Refection versus Radial gratings
 - Event Driven versus Resistive Gate CCDs
 - Hard X-ray Telescope Optics development working toward small prototypes
- Further ramp-up of technology development activities planned in FY03

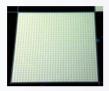


Constellation-X Summary Technology Roadmap





X-ray Calorimeters



Cryocoolers

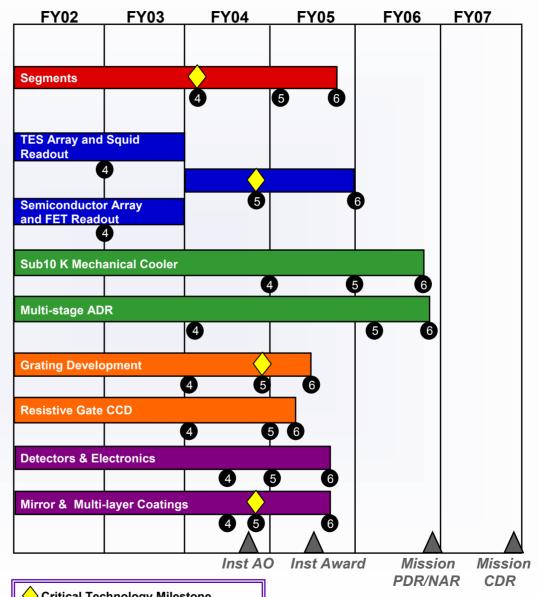


Grating/CCD



Hard X-ray Telescope



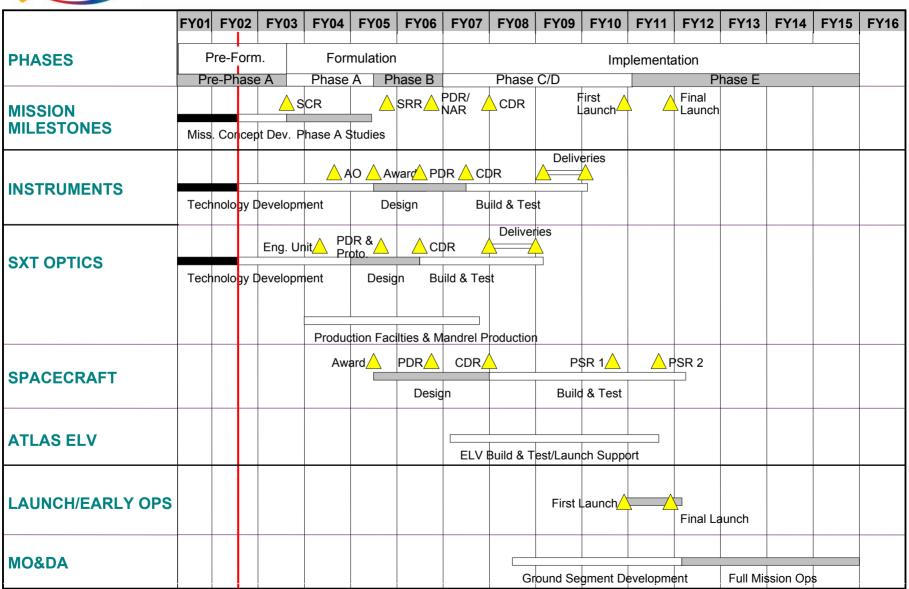


Critical Technology Milestone

Technology Readiness Level (TRL)



Constellation-X Project Master Schedule





Summary

- Constellation-X is positioning to start begin Phase A and ramp-up technology development
- Technology development progress and results to date are promising

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